

CLAIMS

1. A conductive composition comprising a particulate silver compound and a binder.
2. A conductive composition comprising a particulate silver compound, a reducing agent and a binder.
3. A conductive composition according to either one of claim 1 and claim 2, wherein said particulate silver compound is one or more of silver oxide, silver carbonate and silver acetate.
4. A conductive composition according to any one of claim 1 through claim 3, wherein an average particle diameter of said particulate silver compound is within a range from 0.01 to 10 μm .
5. A conductive composition according to any one of claim 1 through claim 4, wherein said binder is one or more materials selected from a group consisting of polyvalent phenol compounds, phenol resins, alkyd resins, polyester resins and epoxy resins.
6. A conductive composition according to any one of claim 1 through claim 5, wherein said binder exhibits a reducing action.

7. A conductive composition according to any one of claim 1 through claim 4, wherein said binder is a fine powder of a thermoplastic resin with an average particle diameter within a range from 20 nm to 5 μm .
8. A conductive composition according to claim 7, wherein said thermoplastic resin is polystyrene or polyethylene terephthalate.
9. A conductive composition according to any one of claim 2 through claim 8, wherein said reducing agent is one or more of ethylene glycol, diethylene glycol, triethylene glycol and ethylene glycol diacetate.
10. A conductive composition according to any one of claim 1 through claim 9, having a viscosity within a range from 30 to 300 dPa·sec.
11. A method of forming a conductive paint comprising the steps of applying and then heating a conductive composition according to any one of claim 1 through claim 10.
12. A method of forming a conductive paint according to claim 11 wherein a heating temperature is within a range from 140 to 200°C.
13. A conductive paint, produced by a formation method according to either one of claim 11 and claim 12, wherein silver particles are fused together.
14. A conductive paint according to claim 13, having a volume resistivity of no more than $3.0 \times 10^{-5} \Omega\cdot\text{cm}$.